

Widely tunable mid-IR femtosecond resonant radiation induced by self-defocusing solitons in a quadratic nonlinear medium - DTU Orbit (08/11/2017)

Widely tunable mid-IR femtosecond resonant radiation induced by self-defocusing solitons in a quadratic nonlinear medium

We experimentally observe widely tunable mid-IR femtosecond pulses by resonant radiation, generated by direct three-wave-mixing from a soliton in PPLN. The poling pitch gives a parametrically tunable resonant radiation, a feature absent in Kerr media.

General information

State: Published

Organisations: Department of Photonics Engineering, Terahertz Science & Technology, Shanghai University, National Central University

Authors: Zhou, B. (Intern), Liu, X. (Intern), Guo, H. (Intern), Zeng, X. (Ekstern), Chung, H. (Ekstern), Chen, Y. H. (Ekstern), Bache, M. (Intern)

Number of pages: 2

Publication date: 2016

Host publication information

Title of host publication: CLEO: Science and Innovations 2016

Publisher: Optical Society of America

ISBN (Print): 978-1-943580-11-8

Main Research Area: Technical/natural sciences

Conference: Conference on Lasers and Electro-Optics 2016, San Jose, California, United States, 05/06/2016 - 05/06/2016

DOIs:

10.1364/CLEO_SI.2016.STu1Q.2

Bibliographical note

From the session: Illuminating the Mid-IR through Parametric Generation (STu1Q)

Source: PublicationPreSubmission

Source-ID: 124242650

Publication: Research - peer-review › Article in proceedings – Annual report year: 2016